

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
 DRILL                       DEEPEN                       PLUG BACK

b. TYPE OF WELL  
 OIL WELL                       GAS WELL                       OTHER   
 SINGLE ZONE                       MULTIPLE ZONE

2. NAME OF OPERATOR  
Starner Drilling

3. ADDRESS OF OPERATOR  
P.O. Box 1868, Grand Junction, Colo. 81501

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*)  
 At surface  
1817' FNL, 1838' FWL                      SE NW  
 At proposed prod. zone  
Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
1 1/2 miles NW from Cisco, Utah

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)                      1817'

16. NO. OF ACRES IN LEASE  
480

17. NO. OF ACRES ASSIGNED TO THIS WELL  
160

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.                      1245

19. PROPOSED DEPTH  
3300' Morrison

20. ROTARY OR CABLE TOOLS  
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
4897 GR.

22. APPROX. DATE WORK WILL START\*  
When permit received

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24#	200	100 sx Class "G"; circulate
7 7/8"	4 1/2"	10.5#	3300	150 sx Dowell RFC

Propose to test Salt Wash Member of Morrison Formation.  
 Surface Use Plan attached. Note: water sands are not anticipated.  
 Surface formation is Mancos.  
 Estimated formation tops:  
 Dakota 2400'  
 Entrada 3200'  
 Pressure control: Schematic attached showing BOP, kill lines, check valves and pressure ratings. See Seven Point Plan attached.  
 Logging: IES & FDC - CNL. No coring planned.  
 Hazards: Experience does not indicate that abnormal pressures or hydrogen sulfide will be encountered.  
 Starting Date: When permit received. Ten days is the estimated operating time.



IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

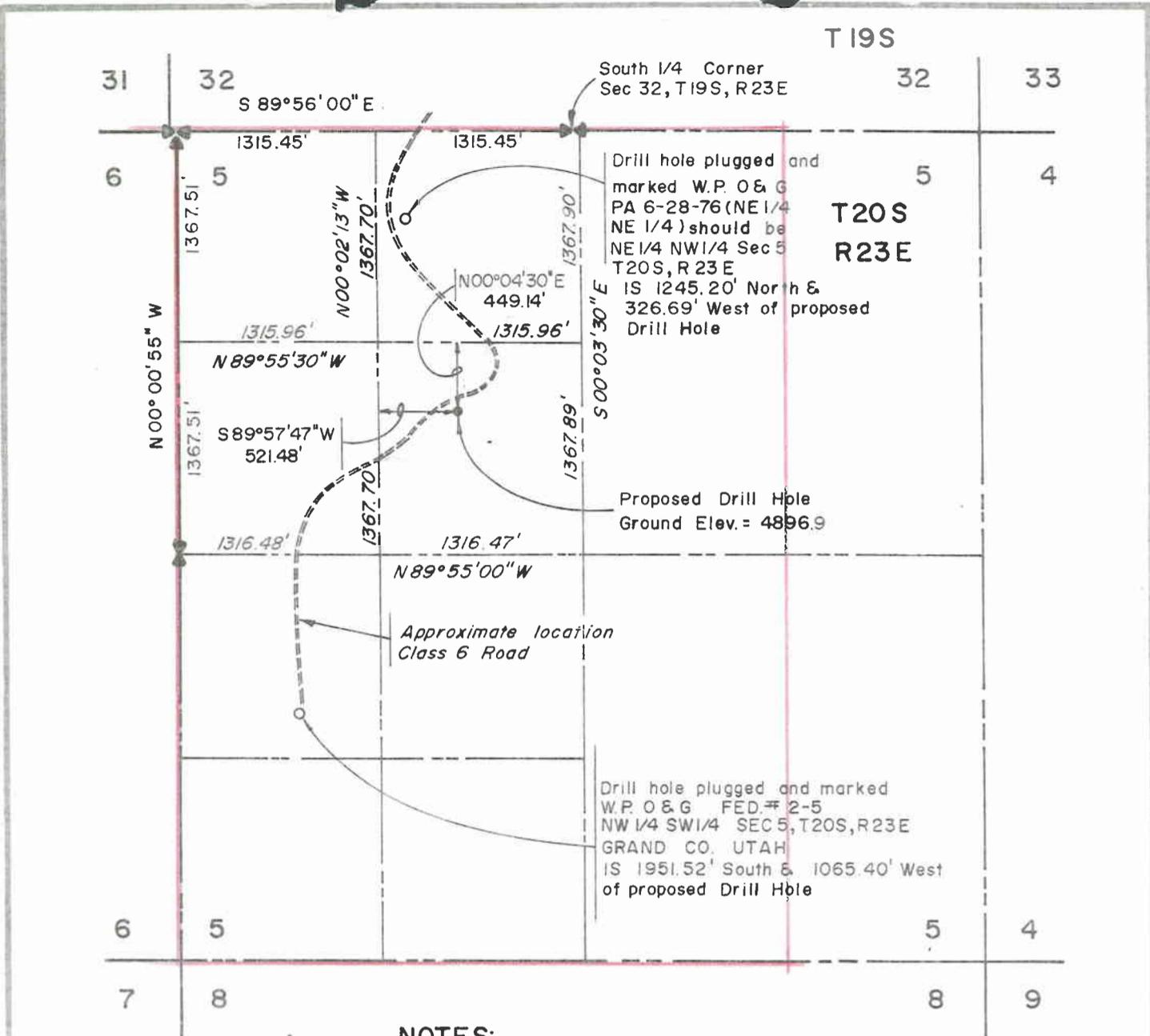
24. SIGNED [Signature] TITLE Pres. DATE 10-15-79

(This space for Federal or State office use)

PERMIT NO. 43019-30576 APPROVAL DATE Nov 12, 1979

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:  
Burkhalter  
588 25rd GJ  
81501



**NOTES:**

INFORMATION GIVEN IN VERTICAL LETTERING IS DERIVED FROM FIELD SURVEYS MADE ON JULY 16, 1979.

INFORMATION GIVEN IN SLANT LETTERING IS CALCULATED BASED ON G.L.O. DATA

- ✶ INDICATES G.L.O. SECTION CORNER FOUND AS SHOWN
- ✷ INDICATES G.L.O. 1/4 CORNER FOUND AS SHOWN
- ELEVATION BASED ON MEAN SEA LEVEL DATUM



SCALE 1" = 1,000'

This is to certify that on the 16th day of July 1979, a survey was made under my direct supervision of the above described property, and that all information pertinent to said real property is accurately shown on the above plat.

*William G. Ryden*  
 Colorado Registered Land Surveyor LS 9331



NO	DATE	REVISION	BY
----	------	----------	----

**COLORADO WEST SURVEYING COMPANY**  
 COMPREHENSIVE LAND PLANNING  
 COMPLETE SURVEYING SERVICE

835 Colorado Avenue  
 Grand Junction, Colorado 81501  
 303 245-2767

DRILL HOLE LOCATION FOR <sup>Western Gold 'N Gas</sup> ~~AYLESWORTH~~  
 FEDERAL 5-1, SE 1/4 NW 1/4 SEC 5, T 20S,  
 R 23E GRAND COUNTY, UTAH  
 LEASE: U14654

DWH

# Map "A"

## Cisco Springs

UTAH-GRAND CO.

7.5 MINUTE SERIES (TOPOGRAPHIC)

(CONT.)

4162 III NW  
(FLUME CANYON)

R. 22 E. R. 23 E. 25' 637

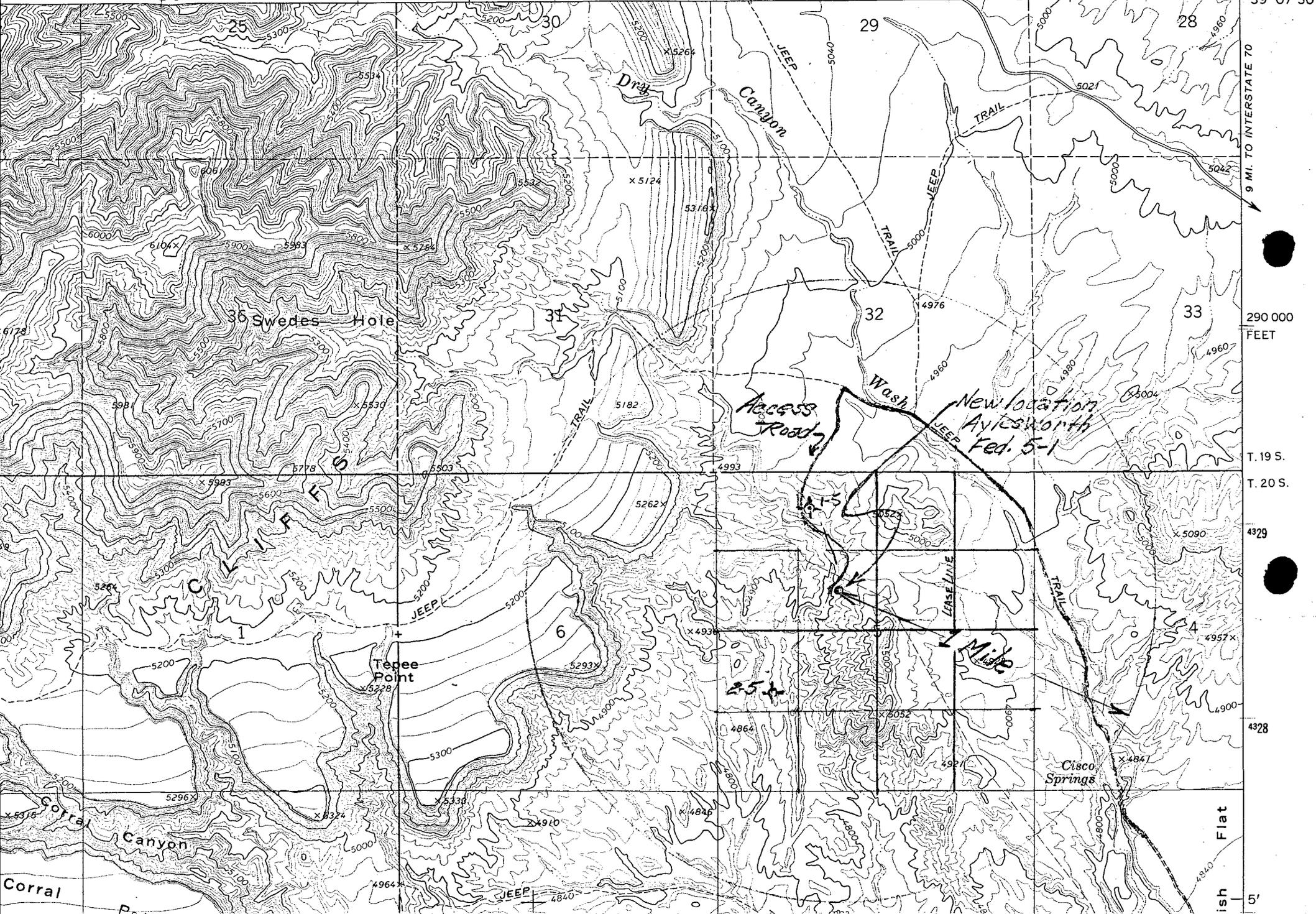
638

639

2 600 000 FEET

109° 22' 30"

39° 07' 30"



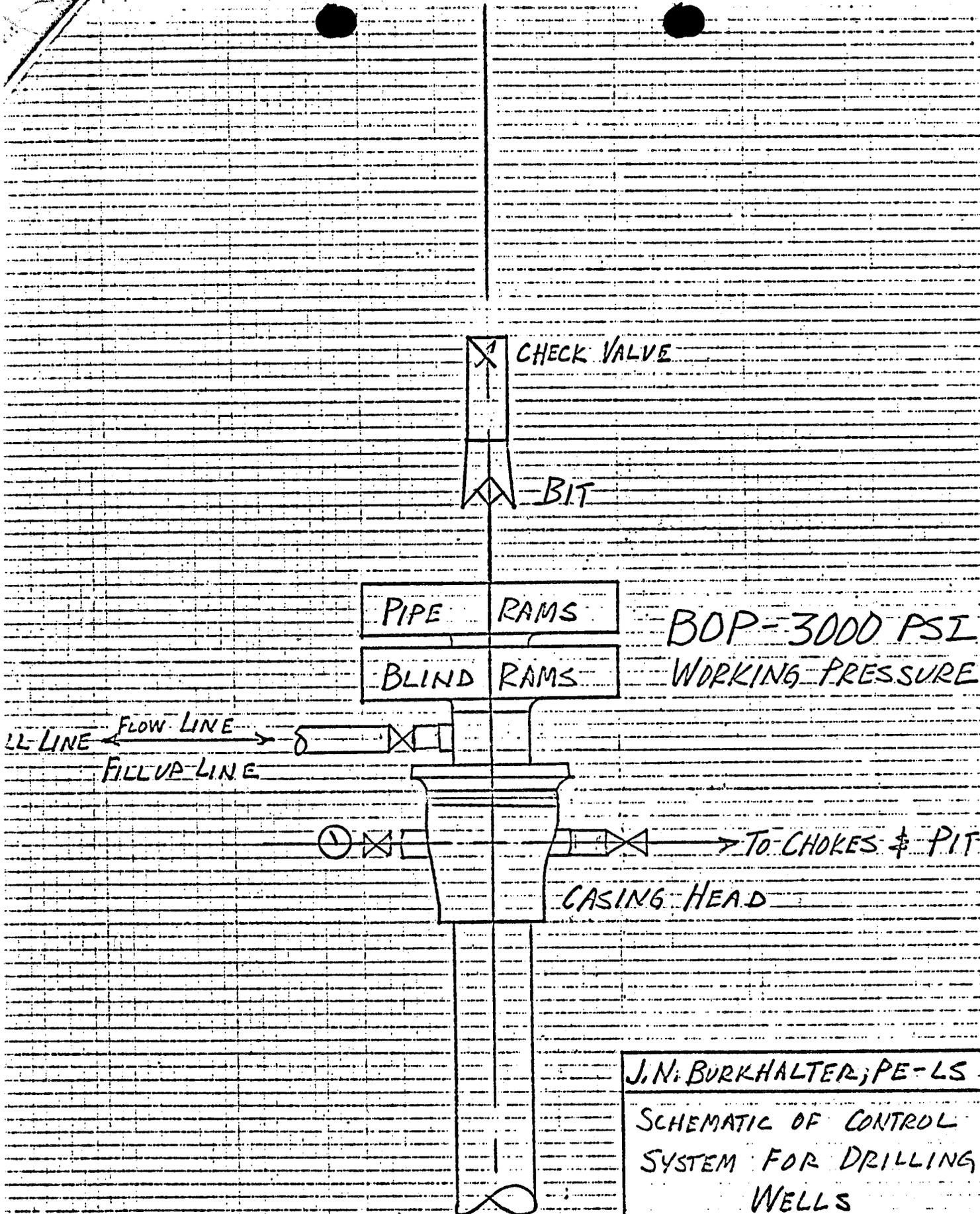
290 000  
FEET

T. 19 S.  
T. 20 S.

4329

4328

5'



J. N. BURKHALTER, PE-LS

SCHEMATIC OF CONTROL  
SYSTEM FOR DRILLING  
WELLS

J. N. BURKHALTER

Oil, Gas and Pipeline Consultant

Professional Engineer and Land Surveyor  
Registered in Rocky Mountain States

592 - 25 Road  
Grand Junction, CO 81501  
Telephone 303/242-8555

Re: Aylesworth Fed. 5-1  
SE $\frac{1}{4}$  NW $\frac{1}{4}$  Sec. 5, T20S, R19E  
Grand County, Utah  
Lease: U-14654

PRESSURE MONITORING AND CONTROL DATA  
SEVEN POINT PLAN

1. Surface Casing: Set at 200'  
Size 8 5/8"  
Weight 24#  
Length Range 3  
Grade J-55 new. Tested to 3000 psig.
2. Casing Heads:  
Series 600 - 1500 psi working pressure.
3. Production Casing:  
Size 4 $\frac{1}{2}$ "  
Weight 10.5#  
Length Range 3  
Grade J-55, new, tested to 3000 psig.
4. Pressure Control:  
BOP RAM Type  
Series 600 - tested to 3000 psig  
Rams Pipe & Blind  
Will use fill, kill and choke lines.
5. Auxiliary Pressure Control:
  - a. Kelly cocks.
  - b. Check valve at bit.
  - c. Monitoring equipment on mud system.
  - d. A sub on floor with a full opening valve to be stabbed into drill pipe when Kelly is out of string.
6. Anticipated Bottom Hole Pressure:  
1450 psig.
7. The Type of Drilling Fluid:  
Air until gas encountered.  
Mud up with Polymer mud with NaCl and CaCl<sub>2</sub> as weighting agent -  
10.5 to 11.00 lb. per gal. as required.

1. Existing Roads: The attached topographic Map "A" is legible and shows:

- A. The proposed well site as staked. Site is referenced by two each 200 ft. directional reference stakes.
- B. To reach Aylesworth Fed. 5-1 in NW SE NW Sec. 5, T20S, R23E, leave Interstate 70 Highway at eastern Cisco exit. Proceed west-northwest 5½ miles across Danish Flat to Cisco Springs. Then follow jeep trail northwest 1½ miles. Turn left and follow established trail ¾ mile south to new location.
- C. The access road is labeled on the attached Topographic Map "A".
- D. The well is not exploratory.
- E. The well is a development well, and all existing roads within a one mile radius of the well site are shown.
- F. The last 2 miles of the existing trail to the location will require significant grading and improvement.

2. Planned Access Roads: See attached Topographic Map "A".

The last 2 miles of the existing trail to the location will be improved. The road will be:

- (1) About 18' wide
- (2) Maximum grade less than 8%
- (3) The last 2 miles of the existing trail to the location will be widened at 2 feasible locations to provide "turnouts".
- (4) Normal meteorological conditions do not require an elaborate drainage plan. Terrain is moderate.
- (5) Culverts will be installed if necessary.
- (6) Surfacing material will be the native material which is primarily Mancos.
- (7) There will be no new necessary gates, cattle guards or fence cuts.
- (8) Since there will be no new roads required, there will not be any center line flagging.

3. Location of Existing Wells:

This well is considered a development well, therefore, a one-mile radius circle has been drawn around the prospective location on attached Topographic Map "A".

- (1) There are no water wells within the one mile circle
- (2) Abandoned wells are shown on attached Topographic Map "A".

- (3) There are no temporarily abandoned wells within the one mile radius.
- (4) There are no disposal wells within the one mile radius.
- (5) There are no drilling wells at the present time within the one mile radius.
- (6) There are no producing wells at this time within the one mile radius.
- (7) There are no shut-in wells, within the one mile radius.
- (8) There are no injection wells within the one mile radius.
- (9) There are no monitoring or observation wells for other resources within the one mile radius.

4. Location of Existing and/or Proposed Facilities:

A. There are no production facilities owned or controlled by lessee/operator such as

- (1) Tank batteries
- (2) Production facilities
- (3) Oil gathering lines
- (4) Gas gathering lines
- (5) Injection lines or
- (6) Disposal lines

B. At the present time we are not sure whether we will find a dry hole, an oil well or a gas well. The well is classified a development well due to the proximity of other drilling. The geology in the area is, however, quite difficult. Therefore, we cannot be sure just what we are going to get. We would respectfully request permission to submit a plan for production facilities when we know what we are going to get with this well.

C. Plan for rehabilitation of disturbed areas no longer needed for operations after construction completed:

We plan to rehabilitate all necessary areas during the fall months of 1979 to the prescribed program set by the Bureau of Land Management. This includes land contours and revegetation.

5. Location, Type of Water Supply:

- A. Water for the drilling operation will be obtained from Cisco Springs approximately 2 miles by road SE of the proposed location.
- B. Water will be transported by a regular oil field water truck on the access road shown on the attached Topographic Map "A".
- C. There will be no water wells drilled on the lease.

6. Source of Construction Materials:

- A. No additional construction materials will be required.
- B. Since no construction materials will be required, none will come from Federal or Indian land.
- C. There will be no construction materials used at this time.
- D. The needed access roads are existing established roads and cross Federal lands. Carmack Drilling Company is committed to restore damaged roads to good condition.

7. Methods for Handling Waste Disposal:

Waste material will be disposed of as follows:

- (1) Cuttings - During air drilling, cuttings will be blown into the pit where they can be covered up and disposed of.
- (2) Drilling fluids such as mud will be contained in steel tanks and excess resulting from cementing and similar operations will be disposed of in the pit.
- (3) Produced fluids such as oil will be contained in storage tanks for purification and sale.
- (4) Water will be contained in a fenced pit and disposed of as necessary.
- (5) There will be a chemical toilet on location to handle human waste.
- (6) Garbage and other waste material will be contained in a trash pit which will be fenced with chicken wire to prevent the wind scattering trash before it is buried.
- (7) The well site will be cleaned up as the rig is moved out by crews attached to the rig. The site will be left clean and free of garbage and/or trash.

8. Ancillary Facilities:

There will be no camps nor air strips required by the proposed well.

9. Well Site Layout:

A plat "B" is included. Scale is 1" = 40 feet.

- (1) Cut or fill on drill pad should not exceed 4'.
- (2) Location of mud tanks, reserve pit, trash pit, pipe racks, living facilities are all shown on drawing "B".
- (3) The rig is oriented on the plat, parking areas and access roads are clearly shown.
- (4) Pits will be unlined for drilling operations.

10. Plans for Restoration of Surface:

- (1) If we get a dry hole, backfilling, leveling, contouring, and waste disposal will be performed at the direction of Bureau of Land Management. Stockpiled topsoil will be used as directed.
- (2) Revegetation and rehabilitation carried out per BIM recommendations.
- (3) Prior to rig release, pits will be fenced or closed in so as to protect livestock and wildlife.
- (4) If there is any oil on the pit, it will be removed.
- (5) The time table for commencement and completion of rehabilitation operations is the fall of 1979. We plan to have this work done prior to October 31, 1979.

11. Other Information:

- (1) See attached Map "A" for the topography in the area of the proposed location. Surface is eroded Mancos Shale covered by sparse sagebrush and grasses. The geology is mid-Mancos shale. The animals present are a few rabbits, ground squirrels, an occasional coyote, an occasional bobcat, hereford cattle and sheep.
- (2) Surface use activities other than drilling would be for the grazing of cattle and sheep. The surface ownership is all Federal Government in the area of the proposed location.
- (3) There is some surface water at Cisco Springs about 2 miles from the proposed location. There are no occupied dwellings within 5 miles of the proposed site.

12. Lessee's or Operator's Representative:

J. N. Burkhalter  
588 - 25 Road  
Grand Junction, Colorado 81501  
303-242-8555, or Mobile 303-245-3660, Unit 5640 or Unit 468

13. Certification:

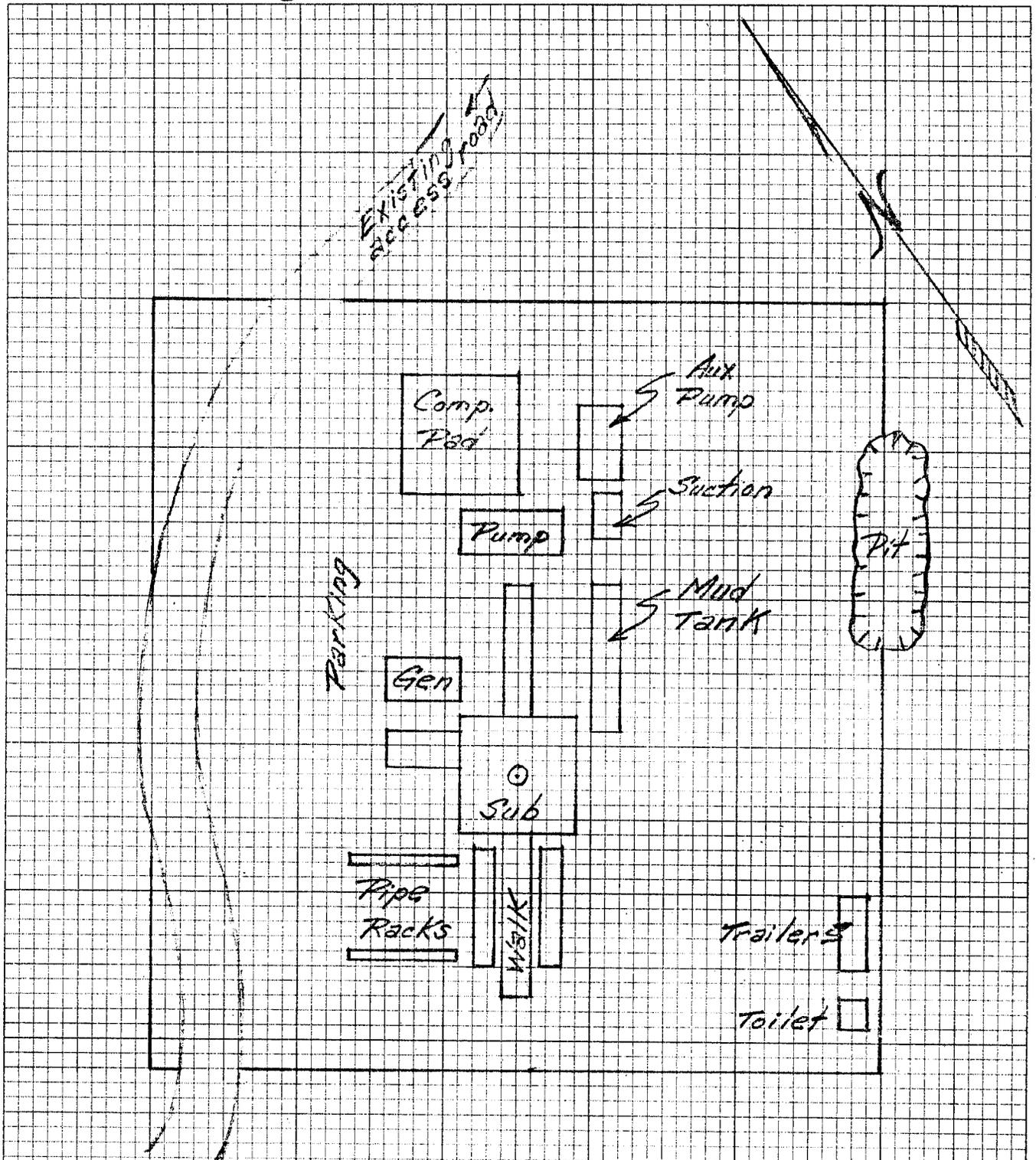
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access routes; that I am familiar with the conditions which presently exist; that the statements made in this plan, to the best of my knowledge, are true and correct; and, that the work associated with the operation proposed herein will be performed by Starner Drilling Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

10-15-79  
Date

Stanley Starner, Pres.  
Name and Title

EUGENE DIE TLBEN CO.  
MADE IN U. S. A.

NEW JET 10 MILLIAMPEN UNIFORMITY  
10 X 10 PER INCH



Burkhalter Engrg.  
Aylesworth Fed 5-1  
SE NW Sec 5 T20S, R23E  
Grand Co., Utah

Well Site Layout  
Scale 1" = 40'

Drawing "B"

ARCHAEOLOGICAL CLEARANCE SURVEY  
OF TWO PROPOSED WELL SITES  
IN GRAND COUNTY, UTAH  
FOR BURKHALTER ENGINEERING

By  
Kenneth L. Kvamme, M.A.  
Centuries Research, Inc.  
P.O. Box 1869  
Montrose, Colorado 81401

August 6, 1979

Prepared for  
Burkhalter Engineering  
592 - 25 Road  
Grand Junction, Colorado 81501

Submitted to  
BLM, District Office, Moab, Utah  
BLM, Grand Resource Area Office, Moab, Utah  
BLM, State Office, Salt Lake City  
Utah State Historical Office  
Antiquities Section, Salt Lake City

BLM Federal Antiquities Permit 79-UT-054  
(Expires February 6, 1980)

U.S.  
Department of the Interior  
Bureau of Land Management  
Utah State Office

BLM Report ID No. 1111-1111  
Report Acceptable Yes  No   
Mitigation Acceptable Yes  No   
Comments: \_\_\_\_\_

Summary Report of  
Inspection for Cultural Resources

1. Cultural Report or Project BLUR|K|H|A|L|T|E|R|I|E|N|G|I|N|E|E|R|I|N|G|

2. Development Company Burkhalter Engineering

3. BLM Mini Permit No. 1111 4. BLM Antiquities Permit No. 0179|-UT|-054

5. Report Date 10|08|06 6. Field Work Dates July 30, 1979

7. Responsible Institution C|E|N|T|U|R|I|S| |R|E|S|E|A|R|

Fill in spaces 81, 85, 93, 97 only if:  
V = Vernal Meridian  
H = Half Township

8. Fieldwork Location: TWN 210S Range 23E Section(s) 105  
TWN 111 Range 111 Section(s) 100 101

9. Resource Area G|R Other: Grand County County

BO = Bonneville, WA = Wasatch, HR = House Range, WS = Warm Springs,  
SE = Sevier River, HM = Henry Mtns., BR = Beaver River, DX = Dixie,  
KA = Kanab, ES = Escalante, SJ = San Juan, GR = Grand, PR = Price River,  
SR = San Rafael, DM = Diamond Mountain, BC = Book Cliffs.

10. Description of Examination Procedures: Pedestrian survey of two proposed well sites, ~~West Range~~ <sup>Wylesworth</sup> Federal 5-1 and Mastorakos Federal 31-1, and one associated access road. A series of parallel transects were walked within each of the proposed areas of disturbance

11. Linear Miles Surveyed 104  
and/or Definable Acres Surveyed 125  
and/or \*legally Undefinable Acres Surveyed 122  
(\*A parcel hard to cadastrally locate i.e., center of section)

12. Inventory Type 1  
R = Reconnaissance  
I = Intensive  
S = Statistical Sample

13. Description of Findings (attach appendices, if appropriate) No prehistoric nor historic cultural resources were encountered. Development will have no impact on cultural resources  
14. Number Sites Found: 0  
No sites = 0  
15. Collection: N Y = Yes, N = No

16. Actual/Potential National Register Properties Affected:  
N/A

17. Conclusion/Recommendations:  
Since no cultural resources were encountered, cultural resource clearance for the proposed developments is recommended.

18. Signature of person in direct charge of field work: Kenneth L. Kvamme  
Kenneth L. Kvamme, M.A.  
19. Signature and Title of Institutional Officer Responsible: Principal Investigator  
UT 8100-3 (4/79)

#### MANAGEMENT SUMMARY

On July 30, 1979, Centuries Research, Inc., conducted a cultural resource survey of two proposed well sites and one associated access road in Grand County, Utah. The reconnaissance was requested by Burkhalter Engineering of Grand Junction, Colorado.

On-foot examination of the proposed impact areas yielded no prehistoric cultural evidence. Cultural resource clearance is recommended.

## INTRODUCTION

An archaeological clearance survey was performed by Centuries Research, Inc., of two proposed well sites and one associated access road in Grand County, Utah. The survey of the proposed impact areas was requested by Burkhalter Engineering of Grand Junction, Colorado.

The fieldwork was conducted by Kenneth L. Kvamme, staff archaeologist at Centuries on July 30, 1979. This report and the field investigation were completed to meet the requirements of applicable historic preservation laws and Executive Order 11593. All work was conducted under the provisions of Federal Antiquities Permit 79-UT-054 which expires on February 2, 1980.

## SURVEY METHODOLOGY

The boundaries of the proposed well pad locations were staked and flagged. The procedure used for the reconnaissance was to walk a series of parallel transects over the proposed areas of impact. The ground surface was visually inspected for evidence of prehistoric or historic utilization of the area. Erosional gullies were also examined for cultural materials. A right-of-way width of 50 feet along the proposed access road was also closely examined.

## SURVEY RESULTS

The well pads are located below the Book Cliffs in an area of gently rolling plain with sandy soil. The vegetation of the area is sparse consisting of sage, various grasses and occasional prickly pear cactus. The project area is drained by Cisco Wash, a major north to south running intermittent drainage.

The well pad sites <sup>Aylesworth</sup>~~West Range~~ Federal 5-1 (Figure 1) and Mastorakos Federal 31-1 (Figure 2) were examined as was a 200' access road associated with the latter well site and no cultural resource evidence was encountered within any of the areas examined.

## RECOMMENDATIONS

Since no cultural resources were encountered, cultural resource clearance for the proposed developments is recommended.

CISCO SPRINGS QUADRANGLE  
 UTAH-GRAND CO.  
 7.5 MINUTE SERIES (TOPOGRAPHIC)

4162 III NE  
 (ANTONE CANYON)

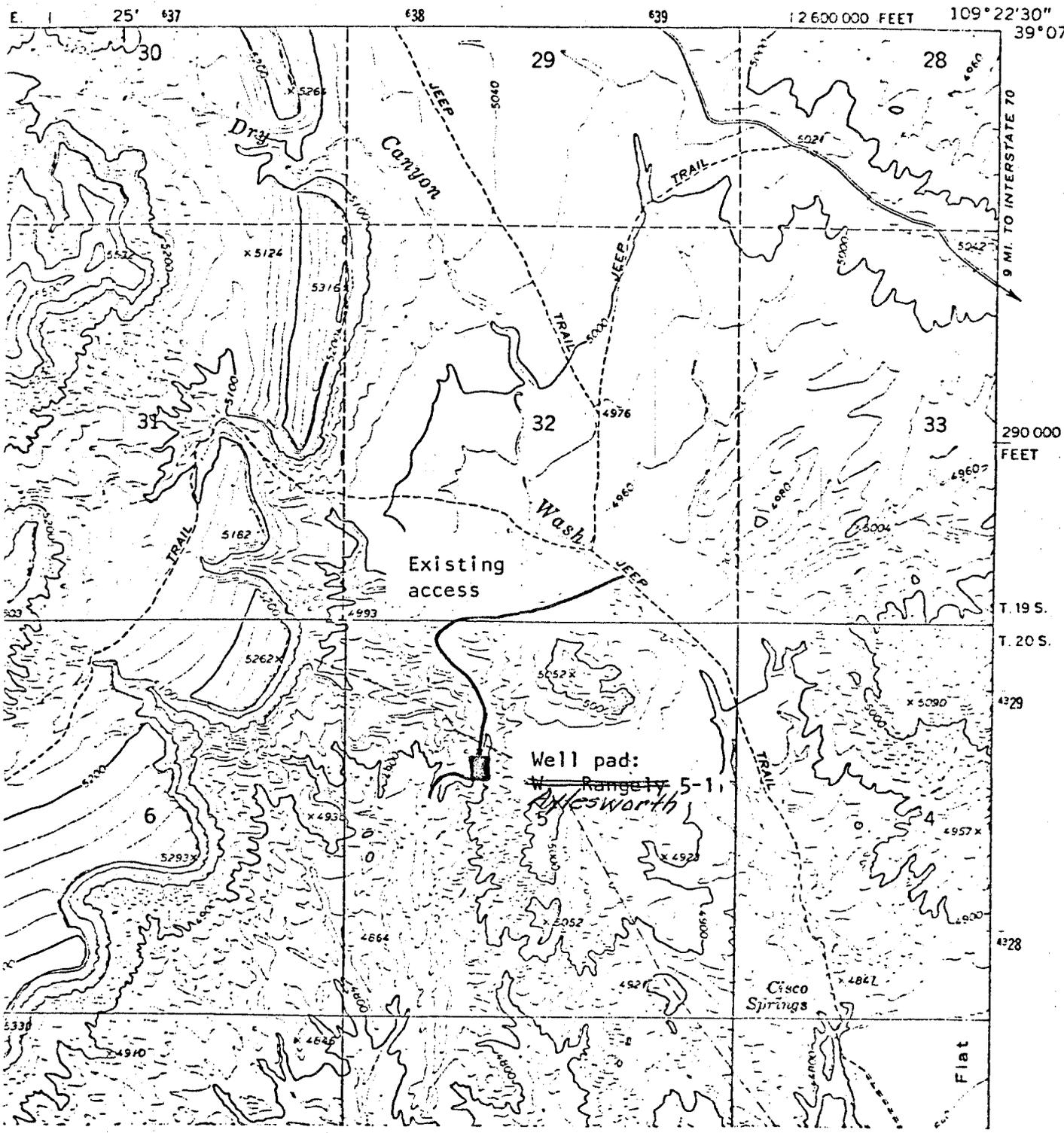
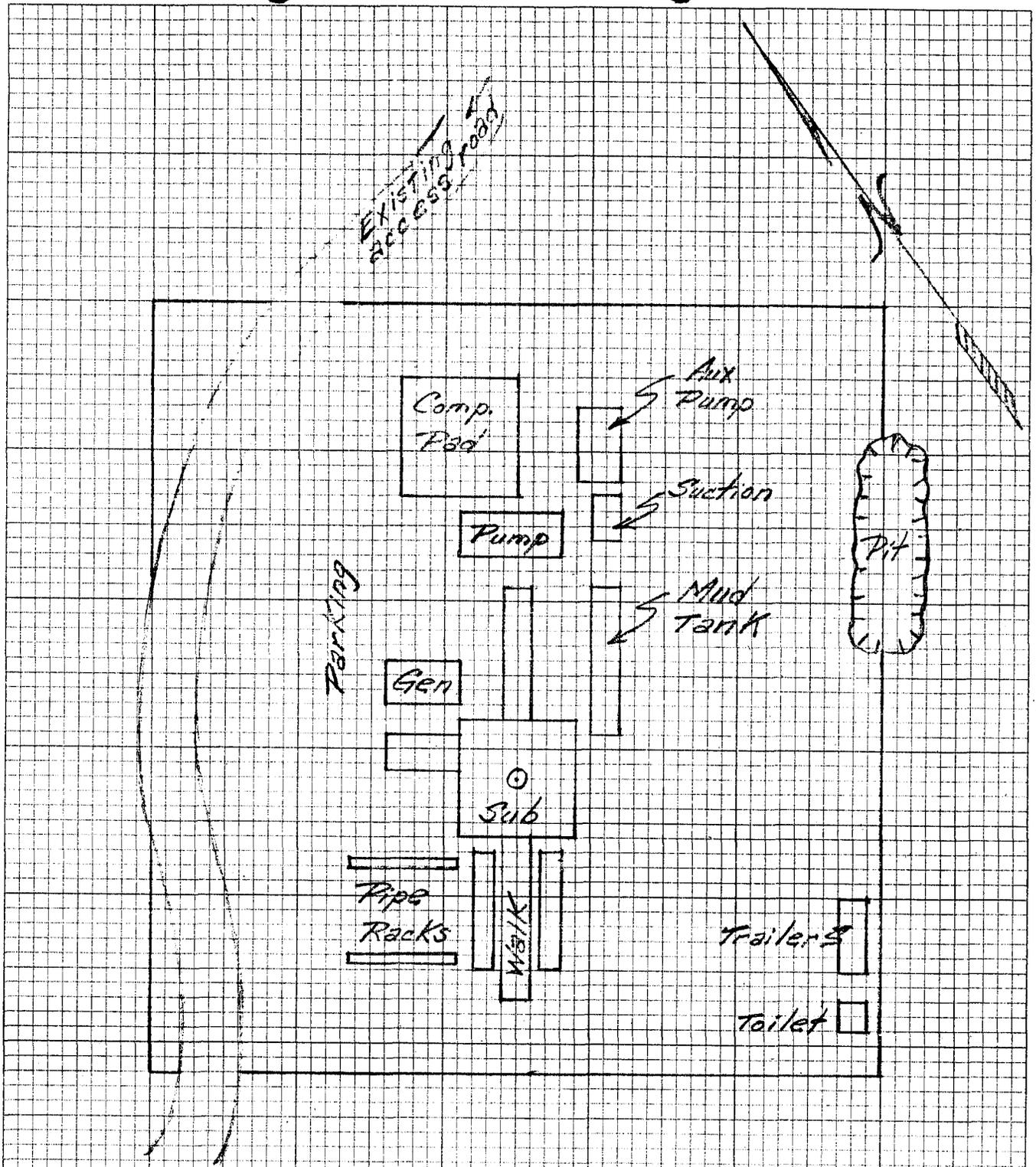


Figure 1: Location of well site West Rangely 5-1.  
 Map Reference: USGS Cisco Springs, Utah, 7.5' topographic quadrangle (1970).  
 The well site is in T20S, R23E, Section 5, Salt Lake P.M.





Burkhalter Engrg.  
Aylesworth Fed 5-1  
SE NW Sec 5 T20S, R23E  
Grand Co., Utah

Well Site Layout  
Scale 1" = 40'

Drawing "B"

ARCHAEOLOGICAL CLEARANCE SURVEY  
OF TWO PROPOSED WELL SITES  
IN GRAND COUNTY, UTAH  
FOR BURKHALTER ENGINEERING

By  
Kenneth L. Kvamme, M.A.  
Centuries Research, Inc.  
P.O. Box 1869  
Montrose, Colorado 81401

August 6, 1979

Prepared for  
Burkhalter Engineering  
592 - 25 Road  
Grand Junction, Colorado 81501

Submitted to  
BLM, District Office, Moab, Utah  
BLM, Grand Resource Area Office, Moab, Utah  
BLM, State Office, Salt Lake City  
Utah State Historical Office  
Antiquities Section, Salt Lake City

BLM Federal Antiquities Permit 79-UT-054  
(Expires February 6, 1980)

U.S.  
Department of the Interior  
Bureau of Land Management  
Utah State Office

Summary Report of  
Inspection for Cultural Resources

FOR BLM USE ONLY

Attachment

BLM Report ID No. 11-11111  
Report Acceptable Yes  No   
Mitigation Acceptable Yes  No   
Comments: \_\_\_\_\_

1. Cultural Report or Project BLUR|K|H|A|L|T|E|R|E|N|G|I|N|E|E|R|I|N|G|

2. Development Company Burkhalter Engineering

3. BLM Mini Permit No. 11111 4. BLM Antiquities Permit No. 10179-UT-1054

5. Report Date 0|0|8| 06 1|9|7|9|6| 6. Field Work Dates July 30, 1979

7. Responsible Institution C|E|N|T|U|R|I|S| |R|E|S|E|A|R|  
FIT in spaces 81, 85, 89 only if:  
V = Vernal Meridian  
H = Half Township

8. Fieldwork Location: TWN 2|0|S| Range 2|3|E| Section(s) 10|5| 3|1|  
TWN 1|1| Range 1|1| Section(s) 1|1|

9. Resource Area G|R| Other: Grand County County

102 103  
BO = Bonneville, WA = Wasatch, HR = House Range, WS = Warm Springs,  
SE = Sevier River, HM = Henry Mtns., BR = Beaver River, DX = Dixie,  
KA = Kanab, ES = Escalante, SJ = San Juan, GR = Grand, PR = Price River,  
SR = San Rafael, DM = Diamond Mountain, BC = Book Cliffs.

10. Description of Examination Procedures: West Range Pedestrian survey of two proposed well sites, West Range Federal 5-1 and Mastorakos Federal 31-1, and one associated access road. A series of parallel transects were walked within each of the proposed areas of disturbance

11. Linear Miles Surveyed 1|0|4|  
and/or  
Definable Acres Surveyed 104|12|  
and/or  
\*Legally Undefinable Acres Surveyed 113|121|  
(\*A parcel hard to cadastrally locate i.e., center of section)

12. Inventory Type 1|1|  
R = Reconnaissance  
I = Intensive  
S = Statistical Sample

13. Description of Findings (attach appendices, if appropriate) No prehistoric nor historic cultural resources were encountered. Development will have no impact on cultural resources.  
14. Number Sites Found: 1|1|1|0|  
No sites = 0 132  
15. Collection: N| Y = Yes, N = No 138

16. Actual/Potential National Register Properties Affected:  
N/A

17. Conclusion/Recommendations:  
Since no cultural resources were encountered, cultural resource clearance for the proposed developments is recommended.

18. Signature of person in direct charge of field work: Kenneth L. Kvamme  
Kenneth L. Kvamme MZA.  
19. Signature and Title of Institutional Officer Responsible: J. P. J. [Signature]  
Principal Investigator  
UT 8100-3 (4/79)

#### MANAGEMENT SUMMARY

On July 30, 1979, Centuries Research, Inc., conducted a cultural resource survey of two proposed well sites and one associated access road in Grand County, Utah. The reconnaissance was requested by Burkhalter Engineering of Grand Junction, Colorado.

On-foot examination of the proposed impact areas yielded no prehistoric cultural evidence. Cultural resource clearance is recommended.

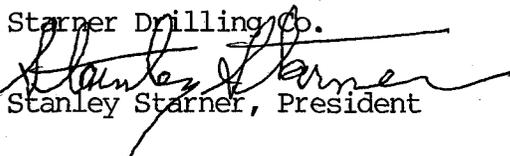
October 15, 1979

Bureau of Land Management  
University Club Building  
136 East South Temple  
Salt Lake City, Utah 84111

Dear Sir:

This is your authority to accept signature of Clyde Aylesworth as agent for Starner Drilling Co. on assignment of Operating Rights in connection with permit application in Grand County, Utah. The Lease Number is U-14654.

Starner Drilling Co.

  
Stanley Starner, President



T 19S

31

32

32

33

S 89°56'00" E

South 1/4 Corner  
Sec 32, T19S, R23E

6

5

5

4

1315.45'

1315.45'

Drill hole plugged and  
marked W.P. O & G  
PA 6-28-76 (NE 1/4  
NE 1/4) should be  
NE 1/4 NW 1/4 Sec 5  
T20S, R 23 E  
IS 1245.20' North &  
326.69' West of proposed  
Drill Hole

T20S  
R23E

N 00°00'55" W

1367.51'

1367.70'

1315.96'

N 89°55'30" W

N 00°04'30" E

449.14'

1315.96'

1367.51'

S 89°57'47" W

521.48'

1367.89'

S 00°03'30" E

Proposed Drill Hole  
Ground Elev. = 4896.9

1316.48'

1316.47'

N 89°55'00" W

Approximate location  
Class 6 Road

Drill hole plugged and marked  
W.P. O & G FED. # 2-5  
NW 1/4 SW 1/4 SEC 5, T20S, R23E  
GRAND CO. UTAH  
IS 1951.52' South & 1065.40' West  
of proposed Drill Hole

6

5

5

4

7

8

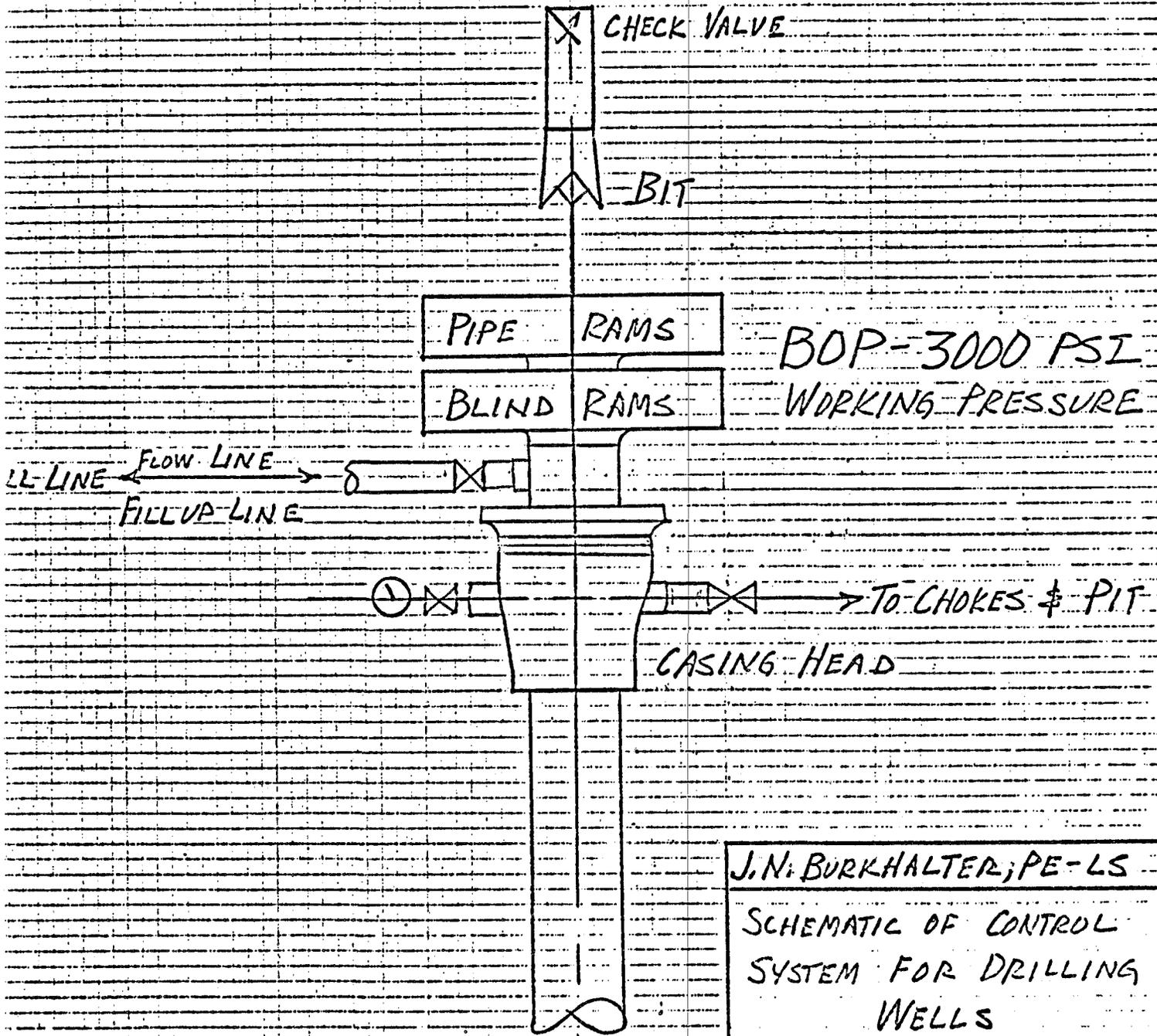
8

9

**NOTES:**

INFORMATION GIVEN IN VERTICAL LETTERING  
IS DERIVED FROM FIELD SURVEYS MADE  
ON JULY 16, 1979.

INFORMATION GIVEN IN SLANT LETTERING



J. N. BURKHALTER; PE-LS  
 SCHEMATIC OF CONTROL  
 SYSTEM FOR DRILLING  
 WELLS

\*\* FILE NOTATIONS \*\*

DATE: October 19, 1979

Operator: Stamer Drilling

Well No: Western Federal 5-1

Location: Sec. 5 T. 20S R. 23E County: Grand

File Prepared:

Entered on N.I.D.:

Card Indexed:

Completion Sheet:

API Number 43-019-30576

CHECKED BY:

Geological Engineer: \_\_\_\_\_  
\_\_\_\_\_

Petroleum Engineer: \_\_\_\_\_  
\_\_\_\_\_

Director: OK if not w/in 1320' from gas well + 400' from oil well north wells in section 5

APPROVAL LETTER:

Bond Required:

Survey Plat Required:

Order No. 102-16B 11/15/79

O.K. Rule C-3

Rule C-3(c), Topographic Exception/company owns or controls acreage within a 660' radius of proposed site

Lease Designation Sec

Plotted on Map

Approval Letter Written   
btm

11/12/79

hl  
PI

October 30, 1979

Starner Drilling  
P.O. Box 1868  
Grand Junction, Colorado 81501

Re: Well No. Aylesworth Federal 5-1  
Sec, 5, T. 20S, R. 23E.,  
Grand County, Utah

Gentlemen:

The above referenced well cannot be approved at this time under the current Field Rule in Cause No. 102-16, because the proposed site is too close to the quarter/quarter/quarter section lease line.

However, a new cause has been proposed, No. 102-16B, (copy enclosed) which will be acted upon by the Board of Oil, Gas and Mining on the 15th of November. If this cause passes, your well will be permitted. In either case, this Division requires a copy of your leased acreage in this area. Please forward this information as soon as possible.

If you have any questions, please contact me.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Cleon B. Feight  
Director

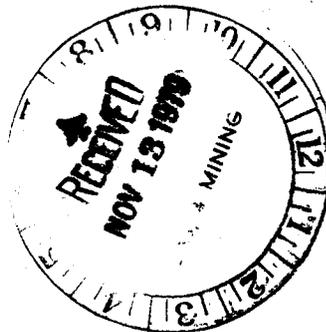
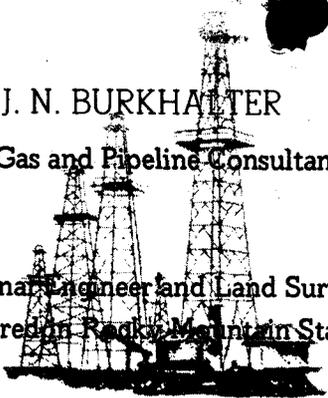
/b:tm

cc: USGS

J. N. BURKHALTER

Oil, Gas and Pipeline Consultant

Professional Engineer and Land Surveyor  
Registered in Rocky Mountain States



582 - 25 Road  
Grand Junction, CO 81501  
Telephone 303/242-8555  
November 5, 1979

Utah Division of Oil, Gas, & Mining  
1588 West North Temple  
Salt Lake City, Utah 84116  
Attention: Mr. Jack Feight

Re: Western Gold 'N Gas 5-1

Gentlemen:

I appreciated the opportunity at the October 24th Hearing to discuss the Application for Permit to drill subject well as originally submitted 10-15-79.

Enclosed find amended copy of the survey sheet submitted with subject application showing the lease limits outlined in red in accordance with your suggestion.

The fact that the indicated location is not 220' from the east governmental quarter, quarter, quarter section is due to intermitten stream drainage and topographic considerations.

It is my understanding that the above amendments will facilitate your approval.

Yours very truly,

Hart C. Gleason, PE  
Burkhalter Engineering

HCG/sb  
enc.

DRILLING AND OPERATING AGREEMENT

Entire

Partial

LEASE SERIAL NUMBER

U-14654

Effective Date of Base Lease

5-1-79

The undersigned, as owner of the above-designated Oil and Gas Lease, does hereby transfer and assign to:

Starner Drilling Company  
P O Box 1868  
715 Horizon Drive Suite 401  
Grand Junction, Colorado 81501

The below specified interest in and to the said Operating Rights insofar as said rights pertain to:

All operating rights

1. Lands affected by this Agreement:

T 20 S, R 23 E, SLM, Grand County, Utah  
Section 5: Lots 2, 3, 4, SW1/4NE1/4, S1/2NW1/4, SW1/4, W1/2SE1/4

Containing 489.26 acres more or less



2. Operating Rights Interest of Lessee in above-described lands:

All

3. Extent of Operating Rights Interest herein conveyed to Assignee:

All

4. Overriding royalty or production payments reserved herein to Assignor:  
(Percentage only)

None

5. Overriding royalties or production payments previously reserved:  
(Percentage only)

5%

IT IS UNDERSTOOD and agreed that this Operating Agreement is made without warranty of title either express or implied and is subject to any and all Existing overriding royalties and/or other burdens in production.

It is hereby certified that the statements made herein are true, complete and correct to the best of the undersigned's knowledge and belief:

EXECUTED THIS 17th DAY OF October 1979.

ATTEST:

BY: Lonid Bourgeois

[Signature]  
(Lessee's signature)

P O Box 1388  
(Lessee's address)

Yuma, Arizona 85364  
(city) (state) (zip)

*Handwritten notes:*  
Westerly 50  
Anthony Foster  
1/25/80

PART II

ASSIGNEE'S REQUEST FOR APPROVAL OF ASSIGNMENT

A. ASSIGNEE CERTIFIES THAT

1. Assignee is over the age of majority
2. Assignee is a citizen of the United States
3. Assignee is  Individual  Municipality  Association  Corporation
4. Assignee is the sole party in interest in this assignment (*information as to interests of other parties in this assignment must be furnished as prescribed in Specific Instructions*)
5. Filing fee of \$25 is attached (*see Item 2 of General Instructions*)
6. Assignee's interests, direct and indirect, do not exceed 200,000 acres in oil and gas options, or 246,080 chargeable acres in options and leases in the same state, or 300,000 chargeable acres in leases and options in each leasing district in Alaska.

B. ASSIGNEE AGREES to be bound by the terms and provisions of the lease described here, provided the assignment is approved by the Authorized Officer of the Bureau of Land Management.

C. IT IS HEREBY CERTIFIED That the statements made herein are true, complete, and correct to the best of under-  
signed's knowledge and belief and are made in good faith.

Executed this 25th day of October , 1979

STARNER DRILLING CO.



(Assignee's Signature)

P.O. Box 1868  
715 Horizon Dr. Suite 401  
Grand Junction, Colorado 81501

(Address, include zip code)

Title 18 U.S.C., Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious, or fraudulent statements or representations as to any matter within its jurisdiction.

DRILLING AND OPERATING AGREEMENT

Entire

Partial

LEASE SERIAL NUMBER

U-14654

Effective Date of Base Lease

5-1-79

The undersigned, as owner of the above-designated Oil and Gas Lease, does hereby transfer and assign to:

Starner Drilling Company  
P O Box 1868  
715 Horizon Drive Suite 401  
Grand Junction, Colorado 81501

The below specified interest in and to the said Operating Rights insofar as said rights pertain to:

All operating rights

1. Lands affected by this Agreement:

T 20 S, R 23 E, SLM, Grand County, Utah  
Section 5: Lots 2, 3, 4, SW1/4NE1/4, S1/2NW1/4, SW1/4, W1/2SE1/4

Containing 489.26 acres more or less

2. Operating Rights Interest of Lessee in above-described lands:

All

3. Extent of Operating Rights Interest herein conveyed to Assignee:

All

4. Overriding royalty or production payments reserved herein to Assignor:  
(Percentage only)

None

5. Overriding royalties or production payments previously reserved:  
(Percentage only)

5%

IT IS UNDERSTOOD and agreed that this Operating Agreement is made without warranty of title either express or implied and is subject to any and all Existing overriding royalties and/or other burdens in production.

It is hereby certified that the statements made herein are true, complete and correct to the best of the undersigned's knowledge and belief:

EXECUTED THIS 17th DAY OF October 1979.

ATTEST:

BY: Eric Bourgeois

[Signature]  
(Lessee's signature) ~~President~~

322 Newhouse Building  
(Lessee's address)

Salt Lake City, Utah 84111  
(city) (state) (zip)

PART II

ASSIGNEE'S REQUEST FOR APPROVAL OF ASSIGNMENT

A. ASSIGNEE CERTIFIES THAT

1. Assignee is over the age of majority
2. Assignee is a citizen of the United States
3. Assignee is  Individual  Municipality  Association  Corporation
4. Assignee is the sole party in interest in this assignment (*information as to interests of other parties in this assignment must be furnished as prescribed in Specific Instructions*)
5. Filing fee of \$25 is attached (*see Item 2 of General Instructions*)
6. Assignee's interests, direct and indirect, do not exceed 200,000 acres in oil and gas options, or 246,080 chargeable acres in options and leases in the same state, or 300,000 chargeable acres in leases and options in each leasing district in Alaska.

B. ASSIGNEE AGREES to be bound by the terms and provisions of the lease described here, provided the assignment is approved by the Authorized Officer of the Bureau of Land Management.

C. IT IS HEREBY CERTIFIED That the statements made herein are true, complete, and correct to the best of undersigned's knowledge and belief and are made in good faith.

Executed this 25th day of October , 19 79

STARNER DRILLING CO.



(Assignee's Signature)

P.O. Box 1868  
715 Horizon Dr. Suite 401  
Grand Junction, Colorado 81501

(Address, include zip code)

Title 18 U.S.C., Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious, or fraudulent statements or representations as to any matter within its jurisdiction.

**UNITED STATES**  
**DEPARTMENT OF THE INTERIOR**  
**GEOLOGICAL SURVEY**

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U 14654

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Western Federal

9. WELL NO.  
5-1

10. FIELD AND POOL, OR WILDCAT  
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
5 T 20S R 23E

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
Starner Drilling Company

3. ADDRESS OF OPERATOR  
Box 1868 Grand Junction Co.o. 81501

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface 1817' FNL 1838' FWL

14. PERMIT NO.  
43-019-3576

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

12. COUNTY OR PARISH Grand 13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF   
FRACTURE TREAT   
SHOOT OR ACIDIZE   
REPAIR WELL   
(Other)

PULL OR ALTER CASING   
MULTIPLE COMPLETE   
ABANDON\*   
CHANGE PLANS

SUBSEQUENT REPORT OF:

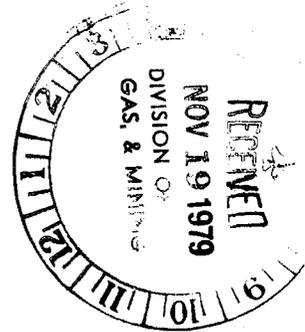
WATER SHUT-OFF   
FRACTURE TREATMENT   
SHOOTING OR ACIDIZING   
(Other)

REPAIRING WELL   
ALTERING CASING   
ABANDONMENT\*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Change name of farm or lease



18. I hereby certify that the foregoing is true and correct

SIGNED Clyde Aylesworth TITLE Agent

DATE Nov. 16 1979

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: Starnes Drilling

WELL NAME: Western Federal #5-1

SECTION 5 SE NW TOWNSHIP 20S RANGE 23E COUNTY Grand

DRILLING CONTRACTOR \_\_\_\_\_

RIG # \_\_\_\_\_

SPUDED: DATE 12/26/79

TIME 10:00 p.m.

HOW rotary

DRILLING WILL COMMENCE ASAP

REPORTED BY Newt Burkhalter

TELEPHONE # 303-242-8555

DATE December 27, 1979

SIGNED W. J. Mander

cc: USGS

DIVISION OF OIL, GAS AND MINING

PLUGGING PROGRAM

NAME OF COMPANY: Starner Drilling Company (Newt Burkhalter 303-242-8555)

WELL NAME: Western Federal #5-1

SECTION 5 SE NW TOWNSHIP 20S RANGE 23E COUNTY Grand

VERBAL APPROVAL GIVEN TO PLUG THE ABOVE REFERRED TO WELL IN THE FOLLOWING MANNER:

TOTAL DEPTH: 2965'

CASING PROGRAM:

8 5/8" @ 215'

FORMATION TOPS:

Dakota	2295'
Morrison	2420'
gas show	2495'
Salt Wash	2632'

PLUGS SET AS FOLLOWS:

On January 6, 1980 at 3:00 a.m., this well was plugged according to Bob Henrics (USGS) as follows:

#1	2300' - 2100'	45 sx
#2	280' - 130'	35 sx
#3	30 - surface	10 sx

DATE January 8, 1980

SIGNED *M. J. Minder*

cc: USGS

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-14654

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

---

7. UNIT AGREEMENT NAME

---

8. FARM OR LEASE NAME

---

9. WELL NO.

Federal 5-1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 5, T20S, R23E, S1M

12. COUNTY OR PARISH

Grand

13. STATE

Utah

1. OIL  GAS   
WELL WELL OTHER Dry Hole

2. NAME OF OPERATOR  
Starner Drilling

3. ADDRESS OF OPERATOR  
P.O. Box 1868, Grand Junction, Co. 81502

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface  
1817' FNL, 1838' FWL

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
KB 4905; GR 4897

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF   
FRACTURE TREAT   
SHOOT OR ACIDIZE   
REPAIR WELL   
(Other)

PULL OR ALTER CASING   
MULTIPLE COMPLETE   
ABANDON\*   
CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF   
FRACTURE TREATMENT   
SHOOTING OR ACIDIZING   
(Other)

REPAIRING WELL   
ALTERING CASING   
ABANDONMENT\*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

8 5/8" - 24lb set at 210 KB.  
6 3/4" Hole below surface pipe  
TD 2968 (LOG); 2965 (Driller)  
Top Dakota 2295  
Morrison 2420  
Salt Wash 2632

Note: No Productive Interval  
Small Gas Show 2495, Died. Mud in hole: 8.6#, 80 Viscosity gel mud.

Plugs

- #1: 2100 to 2300 with 45 sx.
- #2: 130 to 280 with 35 sx.
- #3: Surface with 10 sx.

APPROVED BY THE DIVISION OF  
OIL, GAS, AND MINING

DATE: 1-23-80

BY: *M.J. Minder*

18. I hereby certify that the foregoing is true and correct

SIGNED

*J.H. Burkhardt*

TITLE Consulting Engineer

DATE

1-11-80

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R355.5.

6

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_

b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RESVR.  Other Plug to Abandon

2. NAME OF OPERATOR  
Starner Drilling

3. ADDRESS OF OPERATOR  
P.O. Box 1868, Grand Junction, Co. 81502

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface 1817' FNL, 1838' FWL  
At top prod. interval reported below  
At total depth Same

SE NW

14. PERMIT NO. \_\_\_\_\_ DATE ISSUED 12-13-79

5. LEASE DESIGNATION AND SERIAL NO.  
U-14654

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
---

7. UNIT AGREEMENT NAME  
---

8. FARM OR LEASE NAME  
---

9. WELL NO.  
Fed. 5-1

10. FIELD AND POOL, OR WILDCAT  
Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
Sec. 5, T20S, R23E SIM

12. COUNTY OR PARISH Grand 13. STATE Utah

15. DATE SPUNDED 12-27-79 16. DATE T.D. REACHED 1-5-80 17. DATE COMPL. (Ready to prod.) 1-8-80 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 4879 GR; 4905 KB 19. ELEV. CASINGHEAD \_\_\_\_\_

20. TOTAL DEPTH, MD & TVD 2968 21. PLUG, BACK T.D., MD & TVD P & A 22. IF MULTIPLE COMPL., HOW MANY\* \_\_\_\_\_ 23. INTERVALS DRILLED BY \_\_\_\_\_ ROTARY TOOLS All CABLE TOOLS None

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*  
None 25. WAS DIRECTIONAL SURVEY MADE  
No

26. TYPE ELECTRIC AND OTHER LOGS RUN  
Dual Induction - Laterolog 27. WAS WELL CORED  
No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8	24	210	12 1/4	Circulated	None
			6 3/4		

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
None				

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
None		

31. PERFORATION RECORD (Interval, size and number)

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
None	

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

33.\* PRODUCTION

DATE FIRST PRODUCTION none PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) \_\_\_\_\_ WELL STATUS (Producing or shut-in) \_\_\_\_\_

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO

FLOW. TUBING PRESS. \_\_\_\_\_ CASING PRESSURE \_\_\_\_\_ CALCULATED 24-HOUR RATE \_\_\_\_\_ OIL—BBL. \_\_\_\_\_ GAS—MCF. \_\_\_\_\_ WATER—BBL. \_\_\_\_\_ OIL GRAVITY API (CORR.) \_\_\_\_\_

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) \_\_\_\_\_ TEST WITNESSED BY JAN 23 1980

35. LIST OF ATTACHMENTS \_\_\_\_\_

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED J.H. Burkhardt TITLE Consulting Engineer DATE JAN 23 1980

\*(See Instructions and Spaces for Additional Data on Reverse Side)



**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY**

**SUBMIT IN TRIPLICATE\***  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-14654

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

---

7. UNIT AGREEMENT NAME

---

8. FARM OR LEASE NAME

---

9. WELL NO.

Federal 5-1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 5, T20S, R23E, SIM

12. COUNTY OR PARISH

Grand

13. STATE

Utah

**SUNDRY NOTICES AND REPORTS ON WELLS**  
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL  GAS  OTHER  **Dry Hole**  
WELL WELL

2. NAME OF OPERATOR  
**Starner Drilling**

3. ADDRESS OF OPERATOR  
**P.O. Box 1868, Grand Junction, Co. 81502**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)  
At surface

**1817' FNL, 1838' FWL**

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

**KB 4905; GR 4897**

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

**8 5/8" - 24lb set at 210 KB.  
6 3/4" Hole below surface pipe  
TD 2968 (LOG); 2965(Driller)  
Top Dakota 2295  
Morrison 2420  
Salt Wash 2632**

Note: No Productive Interval

Small Gas Show 2495, Died. Mud in hole: 8.6#, 80 Viscosity gel mud.

Plugs

- #1: 2100 to 2300 with 45 sx.
- #2: 130 to 280 with 35 sx.
- #3: Surface with 10 sx.

**RECEIVED**

**JAN 23 1980**

**DIVISION OF  
OIL, GAS & MINING**

18. I hereby certify that the foregoing is true and correct

SIGNED

*J. H. Burkhardt*

TITLE **Consulting Engineer**

DATE **1-11-80**

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY: